

E

COUNTRY	:	HUNGARY
CATEGORY	:	Analytical Chemistry. General Problems
ABS. JOUR.	:	RZKhim., No. 1 1960, No. 821
AUTHOR	:	Russmann, H. H.
INST.	:	Hungarian AS
TITLE	:	Influence of Spectral Carbons upon the Results of Spectral Analysis
ORIG. PUB.	:	Acta chim. Acad. scient. hung., 1959, 18, No 1-4, 101-119
ABSTRACT	:	Carbon electrodes are divided into graphite with electric resistance < 1750 μ ohm cm and carbon electrodes with resistance > 4500 μ ohm cm. The influence of these types of electrodes upon the results of spectral analysis has been studied. It was established that upon the change of graphite electrodes to carbon ones the temperature of the direct current arc, with constancy of all other conditions (voltage 110 V,

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COUNTRY :
APPROVED FOR RELEASE: 08/25/2000 CIA-RDP86-00513R001446130002-0"

ABS. JOUR.	:	RZKhim., No. 1 1960, No. 821
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AUTHOR	:	
INST.	:	
TITLE	:	

ORIG. PUB. :

ABSTRACT	:	amperage a), increases to 700°K. The phenomenon of "creepage" of the direct current arc which arises upon excitation of the elements with low ionization potentials was also studied. In this case the arc does not hinge upon the end of the upper electrode, but envelops it on the sides. This phenomenon is observed only when graphite electrodes are used. The "creepage" can be eliminated by using electrodes turned annularly.
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CARD: 2/4

COMPUTER :
CATEGORY :
MAG. JOUR. : RZhKhim., No. 1 1960, No.021
AUTHOR :
INST. :
TIME :

JRCIC. PUB. :

ABSTRACT : And when the quantities of the solution are increased this effect disappears as a result of attainment of the saturation limit. The saturation limit in carbon electrodes occurs earlier than in graphite ones.-- V. Nosichenko

CARR:

R-7

L 60072-65

ACCESSION NR: AT5021011

HU/2502/64/042/001/0001/0006

10

B71

AUTHOR: Russmann, H.-H. (Ryussmann, Kh.-Kh.) (Doctor) (Bad Godesberg-Mehlem);
Brooks, R. (Bruks, R.) (Bad Godesberg-Mehlem)

TITLE: Comparative investigation on the reproducibility and sensitivity of various methods of determination employed in the spectrum analysis of solutions

SOURCE: Academia scientiarum hungaricae. Acta chimica, v. 42, no. 1, 1964, 1-6

TOPIC TAGS: electrode, spectrograph camera, spectrum analysis/Zeiss Q-24
spectrograph camera

ABSTRACT: The disk-electrode, the vacuum-cup electrode, the dropping-electrode with carbon, and the dropping electrode method with graphite were compared as to sensitivity and reproducibility using a Zeiss Q-24 spectrograph. On the basis of the data obtained, which were presented and discussed in detail, the methods investigated ranked in the order given above. Orig. art. has: 3 tables, 5 figures

ASSOCIATION: Ringsdorff-Werke GmbH, Bad Godesberg-Mehlem (Ringsdorff Works GmbH)

SUBMITTED: 05Feb64

ENCL: 00

SUB CODE: OP, GC

NR REF SOV: 000

OTHER: 007

JPRS

Card 1/1773

RUSSO, Doina

Contributions to the knowledge of the secondary quartzites in the
Gutii and Calimanului Mountains. Studii cerc geol 9 no.1:229-234
'64

i. Institute of Geology and Geography of the Romanian Academy.

Бюл. 6, 1.

AGAPOV, D.S.; ARTIBILOV, B.M.; VIKTOROV, A.M.; GINTS, A.N.; GOR'KOV, A.V.;
GUSYATINSKIY, M.A.; KARPOV, A.S.; KOLOT, I.I.; KOMAREVSKIY, V.T.;
KORYAGIN, A.I.; KRIVSKIY, M.N.; KRAYNOV, A.G.; NESTEROVA, I.N.;
OBES, I.S., kandidat tekhnicheskikh nauk; SOSNOVNIKOV, K.S.; SUKHOPOD-
SKIY, S.F.; CHLEMNOV, G.O.; YUSOV, S.K.; ZHUK, S.Ya., akademik, glavnnyy
redaktor; KOSTROV, I.N., redaktor; BARONENKOV, A.V., professor,
doktor tekhnicheskikh nauk, redaktor; KIRZHNER, D.M., professor,
doktor tekhnicheskikh nauk, redaktor; SHESHKO, Ye.F., professor, doktor
tekhnicheskikh nauk, redaktor; AVERIN, N.D., inzhener, redaktor
[deceased]; GOR'KOV, A.V., inzhener, redaktor; KOMAREVSKIY, V.T.,
inzhener, redaktor; ROGOVSKIY, L.V., inzhener, redaktor; SHAPOVALOV,
T.I., inzhener, redaktor; RUSSO, G.A., kandidat tekhnicheskikh nauk,
redaktor; FILIMONOV, N.A., inzhener, redaktor; VOLKOV, L.N., inzhener,
redaktor; GRISHIN, M.M., professor, doktor tekhnicheskikh nauk, redak-
tor; ZHURIN, V.D., professor, doktor tekhnicheskikh nauk, redaktor;
LIKHACHEV, V.P., inzhener, redaktor; MEDVEDEV, V.M., kandidat tekhnici-
cheskikh nauk, redaktor; MIKHAYLOV, A.V., kandidat tekhnicheskikh nauk,
redaktor; PETROV, G.D., inzhener, redaktor; RAZIN, N.V., redaktor;
SOBOL'EV, V.P., inzhener, redaktor; FERINGER, B.P., inzhener, redaktor;
TSYPLAKOV, V.D., inzhener, redaktor; ISAYEV, N.V., redaktor; TISTROVA,
O.N., redaktor; SKVORTSOV, I.M., tekhnicheskiy redaktor

[The Volga-Don Canal; technical report on the construction of the
Volga-Don Canal, the TSimlyanskaya hydro development and irrigation
works (1949-1952); in five volumes] Volgo-Don; tekhnicheskii otchet
(continued on next card)

AGAPOV, D.S. --- (continued) Card 2.
o stroitel'stve Volgo-Donskogo sudokhodnogo kanala imeni V.I.Lenina.
TSimlianskogo gidrouzla i orositel'nykh sooruzhenii (1949-1952) v
piati tomakh. Glav.red. S.IA. Zhuk. Moskva, Gos.energ. izd-vo.
Vol.5. [Quarry management] Kar'ernoe khoziaistvo. Red.toma I.N.
Kostrov. 1956. 172 p. (MLRA 10:4)

1. Russia (1923- U.S.S.R.) Ministerstvo elektrostantsii. Byuro
tekhnicheskogo otcheta o stroitel'stve Volgo-Dona. 2. Deystvitel'nyy
cheln Akademii stroitel'stva, i arkhitektury SSSR (for Razin)
(Quarries and quarrying)

RUSSO, G.A., geroy sotsialisticheskogo truda, kandidat tekhnicheskikh nauk.

The Northern Donets--Donets Basin Canal. Gidr. stroi. 26 no.2:7-14
F '57. (MLRA 10:4)

(Northern Donets--Donets Basin Canal)

RUSSO, G.A.

MALENKOV, G.M.; PERVUKHIN, M.G.; KUCHERENKO, V.A.; ZHIMERIN, D.G.; LOGINOV,
F.G.; PAVLENKO, A.S.; YERMAKOV, V.S.; VINTER, A.V.; DMITRIYEV, I.I.;
UGORETS, I.I.; BEKHTIN, N.V.; VOZNESENSKIY, A.N.; VASILENKO, P.I.;
BOROVAY, A.A.; NOSOV, R.P.; ERISTOV, V.S.; BELYAKOV, A.A.; RUSSO,
G.A.; VASIL'YEV, A.F.; REPKIN, V.P.; TERRMAN, I.A.; ORLOV, G.M.;
CHUMACHEENKO, N.A.; BESCHINSKIY, A.A.; YAROSH, V.F.

Pavel Pavlovich Laupman; obituary. Gidr. stroi. 26 no.5:62 My '57.
(Laupman, Pavel Pavlovich, 1887-1957) (MLRA 10:6)

8(6), 14(6)

SOV/112-59-5-8645

Translation from: Referativnyy zhurnal. Elektrotehnika, 1959, Nr 5, p 36 (USSR)

AUTHOR: Russo, G. A.

TITLE: Work of "Gidroproyekt" Institute imeni S. Ya. Zhuk

PERIODICAL: V sb.: Energ.str-vo SSSR za 40 let. M.-L., Gosenergoizdat,
1958, pp 266-271

ABSTRACT: Principal phases in the development of a group of engineers, later known as the "Gidroproyekt" Institute, are briefly noted. Influence of construction-work methods and preliminary explorations upon the design work is explained. The group suggested laying out all principal structures in the flood-land area; the system was accepted for all Volga-River hydro developments. Modern methods of mechanized construction work — hydraulic fill of dams, channel construction, concrete placing, preparation of reinforcements, and use of built-up structures — have been accepted. Aiding in design work are the Hydraulic Laboratory of the Institute and construction-

Card 1/2

SOV/112-59-5-8645

Work of "Gidroproyekt" Institute imeni S. Ya. Zhuk

site laboratories, as well as actual observations. A great many results of laboratory and actual observations have been amassed, and their generalization has improved the design work and has permitted creating new methods for structural designs. Themes of scientific research work conducted by the Institute are reported.

A.S.I.

Card 2/2

SOV/98-58-11-3/15

AUTHOR: Russo, G.A., Candidate of Technical Sciences, Hero of Socialist Labor

TITLE: First Results of the Inspection of Installations of the Kuybyshev Hydraulic System (Pervyye itogi nablyudeniy za sooruzheniyami Kuybyshevskogo gidrouzla)

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1958, Nr 11, pp 15-21,
(USSR)

ABSTRACT: The author describes the results of the inspection of various operating units at the Kuybyshev Power Plant as well as the results of the inspection of foundations and the ground. It was found that all structures are in excellent working condition and that there has been no serious settling of the foundation. This showed that the construction of all structures was executed on a high technical level, and that all basic technical conditions were correctly chosen. There are 5 sets of graphs, 2 profiles, 1 chart and 2 Soviet references.

1. Electric power production 2. Power plants--Inspection

Card 1/1

ZASYAD'KO, A.F.; KUCHERENKO, V.A.; PAVLENKO, A.S.; GRISHMANOV, I.A.;
FROLOV, V.S.; SHASHKOV, Z.A.; YEFREMOV, M.T.; SMIRNOV, M.S.;
CHIZHOV, D.G.; NOVIKOV, I.T.; NOSOV, R.P.; ASKOCHENSKIY, A.N.;
NEKRASOV, A.M.; LAVREMENKO, K.D.; TARASOV, N.Ya.; GABDANK, K.A.;
LEVIN, I.A.; GINZBURG, S.Z.; ALEKSANDROV, A.P.; KOMZIN, I.V.;
OZEROV, I.N.; SOSNIN, L.A.; BELYAKOV, A.A.; NAYMUSHIN, I.I.;
INYUSHIN, M.V.; ACHKASOV, D.I.; HUSSO, G.A.; DROBYSHEV, A.I.;
PLATONOV, N.A.; ZHIMERIN, D.G.; PROMYSLOV, V.F.; ERISTOV, V.S.;
SAPOZHNIKOV, F.V.; KASATKIN, M.V.; ALEKSANDROV, M.Ya.; KOTILEVSKIY,
D.G.

Fedor Georgievich Loginov; obituary. Elek.sta. 29 no.8:1-2
(MIRA 11:11)
Ag '58.
(Loginov, Fedor Georgievich, 1900-1958)

14(6)

SOV/98-59-6-1/20

AUTHORS: Russo, G.A., Candidate of Technical Sciences, and Stankevich, V.I., Engineer

TITLE: New Designs for the Planned Saratov Hydroelectric Power Plant

PERIODICAL: Gidrotekhnicheskoye stroitel'stvo, 1959, Nr 6, pp 1-8
(USSR)

ABSTRACT: The institute "Gidroproyekt" designed the Saratov Hydroelectric Power Plant taking into consideration new recommendations for reducing the construction costs and the volume of hydraulic structures, using as many as possible prefabricated reinforced concrete parts. The power plant will be equipped with 20 power units. Each power propeller unit consists of one 50,000 kw, vertical, adjustable-blade turbine with a runner of 10 m diameter and a synchronous generator of SV 1430/135-120 type. The project does not provide for the construction of a special generator hall over the power unit. The

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SOV/98-59-6-1/20

New Designs for the Planned Saratov Hydroelectric Power Plant

maximum water passing capacity of the dam is fixed at 21,500 m³/sec. The specific water passing capacity is 70 m³/sec. The planned dam will be built on a natural foundation of compact clays. About 55% of all concrete constructions will consist of prefabricated steel reinforced concrete parts. These parts will weigh 140 to 600 tons each and will be put into position either by a BK-1425 type tower crane or by an operational crane (for heavy parts). Special monolithic reinforced concrete blocks will strengthen the whole construction, and especially the joints of the prefabricated reinforced concrete parts. In comparison with the Kama GES, where the volume of concrete for 1 kilowatt is 1.92 cu m, this volume is only 1.37 cu m for the Saratov GES. The names of

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SOV/98-59-6-1/20

New Designs for the Planned Saratov Hydroelectric Power Plant

the late D.I. Kumin and G.A. Yuditskiy are mentioned by the author for their research work at VNIIG. There are 4 diagrams, 2 graphs, 1 table, and 4 references, 3 of which are Soviet and 1 American.

Card 3/3

MALYSHEV, Nikolay Alekseevich, inzh.; RAZIN, Nikolay Vasil'yevich;
RUSSO, Georgiy Andreyevich, inzh.; BORUNOV, N.I., tekhn.red.

[The V.I.Lenin Hydroelectric Power Station on the Volga]
Volzhskaya gidroelektrostantsiya imeni V.I.Lenina. Pod obshchey
red. G.A.Russo. Moskva, Gos.energ.izd-vo, 1960. 75 p.

(MIRA 13:7)

(Volga Hydroelectric Power Station)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0

NEPOROZHNIY, P.S. (Moskva); BELYAKOV, A.A. (Moskva); RUSSO, G.A. (Moskva);
BUROVOY, A.A. (Moskva); NEKRASOV, A.M. (Moskva); ROKOTYAN, S.S.
(Moskva); MIOSLAVSKIY, N.M. (Moskva); SYROMYATNIKOV, I.A.,
doktor tekhn. nauk, prof.

Principal trends in the realization of over-all electrification.
Elektrichestvo no.8:77-82 Ag '63. (MIRA 16:10)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0"

RUSSO, G.A., kand.tekhn.nauk

Problem of the efficient use of the runoff of northern rivers.

Gidr. stroi. 31 no.7:11-16 J1 '61.

(MIRA 14:7)

(Rivers—Regulation)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0

RUSSO, G.A., kand.tekhn.nauk

Irtysh-Karaganda Canal. Gidr. stroi. 31 no. 12:61-67 D '60.
(MIRA 14:4)

(Irtysh-Karaganda Canal)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0"

NEPOROZHNIY, P.S. (Moskva); BELYAKOV, A.A. (Moskva); RUSSO, G.A. (Moskva);
BOROVAY, A.A. (Moskva); NEKRASOV, A.M. (Moskva); MIOSLAVSKIY,
N.A. (Moskva); ROKOTYAN, S.S. (Moskva); RAZGON, V.N., inzh.;
TSVERAVA, G.K., inzh. (g.Boksitogorsk)

Principal trends in over-all electrification. Elektrichesvo
no. 11:87-90 N '60. (MIRA 13:12)

1. Mosenergo (for Razgon).
(Electrification)

Russo, G.F.

FEDOROV, L.T., kand.tekhn.nauk; LEONT'YEVSKIY, B.B.; GIL'DENBLAT, Ya.D.,
kand.tekhn.nauk; KORENISTOV, D.V.; ROSSINSKIY, K.I., kand.tekhn.
nauk; KUZ'MIN, I.A., kand.tekhn.nauk; KONDRAKSKAYA, A.A., inzh.,
NISAR-MUKHAMEDOVA, G.N., inzh.; PANNOVA, G.M., inzh.; ROZHDESTVENSKIY,
G.L., inzh.; SEMIKOLENOV, A.S., inzh.; TSAREVSKIY, S.V., inzh.;
ZHUKOVA, M.F., inzh.; GRISHIN, M.M., retsenzent; KRITSKIY, S.N.,
doktor tekhn.nauk, red.; MENKEL', M.F., doktor tekhn.nauk, red.;
GALAKTIONOV, V.D., kand.geol.-min.nauk, red.; ZAVALISHIN, I.S., inzh.,
red.; MALYSHEV, N.A., inzh., red.; MIKHAYLOV, A.V., doktor tekhn.
nauk, red.; PETROV, G.D., inzh., red.; RAPOPORT, Ya.D., red.; RUSSO,
G.A., kand.tekhn.nauk, glavnyy red.; SEVAST'YANOV, V.I., inzh., red.;
TITOV, S.V., inzh., red.; TISTROVA, O.N., red.; LARIONOV, G.Ye.,
tekhn.red.

[Hydrology and water economy of the Volga-Don] Gidrologiya i vodnoe
knoziaistvo Volgo-Dona. Pod red. S.N.Kritskogo i M.F.Menkelia.
Moskva, Gos.energ.izd-vo, 1960. 146 p. (MIRA 13:11)

1. Moscow. Vsesoyuznyy proyektno-izyskateley'skiy i nauchno-issledo-
vateley'skiy institut "Gidroproyekt" imeni S.Ya.Zmuk. 2. Deystvitel'-
nyy chlen Akademii stroitel'stva i arkhitektury SSSR (for Grishin).
(Don River—Water resources development)

RUSSO, G.A., inzh., red.; TISTROVA, O.N., red.; BORUNOV, N.I., tekhn.red.

[Series of hydroelectric power stations on the Volga and Kama
Rivers] Volzhskii i Kamskii kaskady gidroelektrostantsii.
Moskva, Gos.energ.izd-vo, 1960. 271 p. (MIRA 13:10)
(Volga River--Hydroelectric power stations)
(Kama River--Hydroelectric power stations)

RUSSO, G. S. (Engr)

RUSSO, G. S. (Engr) -- "Calculation of Forces, Acting on a Ship in the Process of Damming, in a Concentrated System of Loading." Sub 14 Oct 52, Moscow Order of Labor Red Banner Engineering-Construction Inst imeni V. V. Kuybyshev. (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Vechernaya Moskva, January-December 1952

BRINZEU,P.; RUSSO,I.; MARCU,M.; REKASI,C.

Intestinal infarction of venous origin. Romanian M. Rev. 4 no.1:
88-90 Ja-Mr '60.

1. 2nd Surgical Clinic of the Medical Institute in Timisoara.
(~~INTESTINES~~ blood supply)
(INFARCTION etiol.)

RUSSO, Vera

Radiant youth; exhibition of the work of the photography section of
the Committee of Youth Organizations of the U.S.S.R. Sov.foto 21
no.9:10-15 S '61. (MIRA 14:9)

1. Redaktor kinostudii "Mosnauchfil'm".
(Photography--Exhibitions)

RUSSO, Vera

Remembered works. Sov.foto 20 no.9:16-18 S '60.

(MIRA 13:9)

1. Redaktor studii Mosnauchfil'm.
(Photography--Exhibitions)

DREYZENSHTEOK, Z.B.; PAS', A.I.; RUSSO, V.L.; MART'YANOV, G.I., inzhener,
retsenzent; KOCHERGIN, K.A., kandidat tekhnicheskikh nauk, redaktor;
POL'SKAYA, R.G., tekhnicheskiy redaktor

[Electric welder] Elektrosvarshchik. Moskva, Gos. nauchno-tekhn.
izd-vo mashinostroit. lit-ry, 1956. 102 p. (MLRA 10:3)
(Electric welding)

RUSSO, Vladimir Leonidovich; PETROW, G.L., otvetstvennyy redaktor; OSVENSKAYA, A.A., redaktor; PRUMKIN, P.S., tekhnicheskiy redaktor

[The welding of aluminum and its alloys] Svarka aliuminija i ego splavov. Leningrad, Gos. soiuznoe izd-vo sudostroit. promyshl. 1956. 136 p.

(Aluminum--Welding)

RUSSO, V. L.

25(1) P-2

PHASE I BOOK EXPLOITATION

SOV/2050

Svarka sbornik statey, [vyp.] 1 (Welding; Collection of Articles, Nr 1) Leningrad, Sudpromgiz, 1958. 246 p. 4,000 copies printed.

Resp. Ed.: G. I. Kapyrin, Candidate of Technical Sciences;
Ed.: I. A. Zhirmunskaya; Tech. Ed.: K. M. Volchok.

PURPOSE: This collection of articles is intended for use in research institutes, institutes of higher learning, design offices, and plants.

COVERAGE: These technical papers deal with the results of research in welding technology. The main purpose of this work was to investigate the effects of various welding regimes and heat treatments on the mechanical properties of welds of austenitic and perlitic composition. A number of experiments also dealt with the welding properties and weldability of titanium-base alloys and a number of nonferrous metals. One of the objects of the research was to establish the relationship between the geometry of the weld seam and its physical properties. The crystallization

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Welding (Cont.)

SOV/2050

of the weld, its mechanical properties, and the various factors affecting the grain structure of the metal were studied by a number of scientists. Of special practical interest is the study of the behavior of a welded structure in which the elasticity of the material and of the welded joint are not within the same range. These considerations lead to experiments with mechanically induced changes in the properties of the weld seam. Another problem which presents many difficulties in welding is the behavior and changes in the heat-affected zone next to the welded joint. One of the papers deals with experiments in this field. A description is given of the equipment and the technique used in electroslag welding, which is regarded as one of the major advances in modern welding technology. Several papers deal with welding techniques of nonferrous alloys and with the use of special fluxes for this work. Most of the papers are profusely illustrated with graphs, diagrams, and photographs. References are given after each article.

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Welding (Cont.)

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Welded Titanium Joints 156
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Weldability of Certain Titanium Alloys 166
- Buryak, I.V., Engineer. 48-AE-1 Electrodes for Manual
Welding of Aluminium-Magnesium Alloys 175
- Pertsovskiy, G.A., Engineer. Study of Passage of Current
Through Molten Slag in Electroslag Welding 187
- Rukhlin, P.N., Candidate of Technical Sciences, and G.A.
Pertsovskiy, Engineer. Submerged Arc Welding of Heat-
resistant Steels 194

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Welding (Cont.)

SOV/2050

Rukhlin, P.N., Candidate of Technical Sciences, and
V.S. Lur'ya, Engineer. Equipment and Technique of
Electrosiag Welding and Build-up of Long Weld Seams 201

Brusnitsyn, Yu. D., Engineer. Hydration of Molten
Weld Fluxes 215

Shkatov, Yu. I., Engineer, and Yu. D. Brusnitsyn.
Problem of Welding Fluxes for Automatic Welding
With Low-alloy Cr-Mo-V Wire Electrodes 232

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GO/dfh
7-27-59

Card 6/6

RUSSO, V.L., inzh; YEFIMOV, P.N.

Effect of low-frequency vibrations on crystallization of the
weld bath metal and properties of metal in the seam. Svar.
proizv. no.11:10-12 N '58. (MIRA 11:11)
(Solidification) (Sound waves--Industrial applications)
(Welding--Testing)

SOV/137-59-2-3024

Translation from: Referativnyy zhurnal, Metallurgiya, 1959, Nr 2, p 101 (USSR)

AUTHOR: Russo, V. L.

TITLE: Effect of Vibration on the Crystallization of the Metal in a Welding Seam (Vliyanie vibratsiy na kristallizatsiyu metalla v svarnom shve)

PERIODICAL: Sudostroyeniye, 1958, Nr 4, pp 37-41

ABSTRACT: Oscillations in the welding bath are excited by the vibration of a plate in a special device activated by a D-C motor equipped with an eccentric. The experiments were carried out on a two-layer weld seam manually laid on with high-grade ferrite electrodes on 18-mm thick plates of low-alloy Cr-Ni-Mo steel with a frequency of 30-50 cps with an 0.01-0.1 mm amplitude. It is shown that the application of vibration on the crystallizing welding bath causes a reduction in the grain size of the seam structure and a considerable increase in a_k . Thus the average a_k on Mesnager specimens at $\sim 40^\circ\text{C}$ on a plate welded under conditions of 0.1-0.15-mm-amplitude vibrations was 17.7 kgm/cm^2 , whereas with welding under the usual conditions it is only 7.9 kgm/cm^2 . The effect of ultrasonic vibrations (USV) of 20-kc

Card 1/2

SOV/137-59-2-3024

Effect of Vibration on the Crystallization of the Metal in a Welding Seam

frequency and 5-watt power on the crystallization of Al-Mg alloy ingots 18 mm in diam and 10 mm high was investigated at the same time. Treatment of the ingots with USV from below for 30 sec resulted in an appreciable decrease in the size of the initial structural grain and a more regular distribution of the second phase along the grain boundaries. A layout for transmission of USV to the welding bath from below, similar to the layout for USV transmission to an ingot, is proposed. In this layout the plate to be welded is rigidly connected to an US transformer and the root of the seam should be located at the antinode of the USV amplitude in order to achieve effective treatment. Changes in the crystallization process effected by vibrations of either low or US frequency are explained by the breakdown of the growing dendrites, whose fragments are then carried out into the melt and become supplementary crystallization nuclei. The breakdown of the growing crystals can occur through the pressure impulses developing in the melt (at a frequency of 30-50 cps) and forces of friction between the melt and the crystallization front, as well as the cavitation processes in the liquid metal occurring under USV.

L. S.

Card 2/2

RUSSO, V. L.
(1) 18(6)

USE I BOOK EXPLOITATION SOV/3217

Baykov, Dmitriy Ivanovich, Yuli Semenovich Zolotorevskiy, Vladimir Leonidovich Russo, and Tamara Konstantinovna Ryazhskaya

Svarivayushchiyesya alyuminiiyevyye splavy; svoystva i primeneniye
(Weldable Aluminum Alloys; Properties and Application) Leningrad,
Sudpromgiz, 1959. 234 p. 4,300 copies printed.

Ed.: Yu. S. Kazarov; Tech. Ed.: L. I. Levochkina.

PURPOSE: This book is intended for production engineers and designers working with corrosion-resistant weldable aluminum alloys.

COVERAGE: The authors describe properties of corrosion-resistant weldable aluminum-magnesium alloys, their production, machining, welding and riveting. They give data on corrosion resistance and on the effect of the rate of loading, temperature, and notching on the properties of the alloys. The authors discuss special cases and some characteristic features of designing aluminum alloy constructions, giving examples of the application of aluminum alloys in shipbuilding and railroad rolling stock. The following personalities are mentioned as having contributed to the compilation of this book:

Card 1/5

Weldable Aluminum Alloys

SOV/3217

V. G. Azbukin, Yu. A. Belyakov, K. S. Bolotova, V. G. Danchenko, Z. I. Ivanova, I. V. Korchazhinskaya, I. A. Nezhnikovskiy, A. I. Pas', A. N. Polubotko, I. P. Prosyankin, V. S. Rudometov, Yu. S. Ryabushkin, Z. G. Sokolova, Ye. I. Tarakan-chikova, and M. M. Chikhanova. The authors also express their thanks to K. S. Bolotova, P. N. Yefimov, Ye. I. Tarakanchikova, I. A. Travnikova and M. M. Chikhanova for their help in processing the material. There are 65 references, 42 Soviet, 10 English, 10 German, and 3 French.

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4. Methods of mechanical machining of alloys in manufacture	43
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Weldable Aluminum Alloys

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Weldable Aluminum Alloys

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Card 4/5

SOV/135-59-1-3/18

AUTHORS: Russo, V.L., and Prosyankin, I.P., Engineers

TITLE: Properties of the Heat-Affected Zone in Welding
"V-95" Alloys (Svoystva zony termicheskogo vliya-
niya pri svarke splava V-95)

PERIODICAL: Svarochnoye proizvodstvo, 1959, Nr 1, pp 9-12
(USSR)

ABSTRACT: Three different methods of argon arc welding
"V-95" alloys with tungsten electrodes were used
to calculate heat distribution and cooling rate
in different spots of the heat-affected zone, for
the purpose of determining changes in metal prop-
erties according to welding technology. Struc-
tural changes occurred mostly near the fusion line
where the temperature is 600 to 650°C, and less
in zones of 400 to 580°C. Metal properties:

Card 1/2

SOV/135-59-1-3/18

Properties of the Heat-Affected Zone in Welding "V-95" Alloys

in zones heated to 580° improve with a higher cooling rate. It is recommended to use heat sources and technology which reduce the heat-affected zone in the 600 - 650°C temperature range and to step-up the cooling process. There are 3 tables, 4 graphs, and 2 sets of micro-photos.

Card 2/2

VOL'FKOVICH, S.I.; LORENTS, G.; ZHUKOVA, V.A.; SIDEJ'KOVSKIY, L.N.; RUSSO, V.L.;
YAGODINA, T.N.

Hydrothermal processing of phosphates in a fluidized bed. Khim.prom.
(MIRA 18:8)
41 no.6:459-462 Je '65.

1. Nauchno-issledovatel'skiy institut po udotreniyam i
insektofungisidam imeni Ya.V.Samoylova; Moskovskiy gosudarstvennyy
universitet i Moskovskiy energeticheskiy institut.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0

RAFALOVICH, I.M.; RUSSO, V.L.

Cyclone-type smelting furnaces. TSvet. met. 37 no.9:28-36 S '64.
(MIRA 18:7)

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0"

TAYTS, Boris Lazarevich; RUSSO, V.L., red.

[Modern techniques and equipment for the arc welding of
aluminum structures] Sovremennaia tekhnologija i oboru-
dovanie dlia dugovoi svarki alluminievых konstruktsii;
stenogramma lektsii. Leningrad, 1964. 41 p.
(MIRA 17:7)

BYKHOVSKIY, David Grigor'yevich; DOBROLENSKIY, V.P., kand. tekhn.
nauk, retsenzent; RUSSO, V.L., retsenzent; KHAZOV, V.Ya.,
nauchn. red.; TURANDINA, L.A., red.

[Oxygen-arc cutting of metals in shipbuilding] Gazoelektri-
cheskaia rezka metallov v sudostroenii. Leningrad, Sudostro-
enie, 1964. 167 p. (MIRA 17:5)

DREYZENSHTOK, Zundel' Borisovich; LUSHKOV, Natan Lazarevich;
DEGTYAR', T.A., inzh., retsenzent; RUBINCHIK, Yu.L.,
inzh., retsenzent; RUSSO, V.L., nauchn. red.; KUSKOVA,
A.I., red.; KOROVENKO, Yu.N., tekhn. red.
[Handbook of a welder in shipbuilding] Spravochnik svar-
shchika-sudostroitelja. Leningrad, Sudpromgiz, 1963. 351 p.
(MIRA 17:2)

VAYNERMAN, Abram Yefimovich; MATSOV, M.M., inzh., retsenzent;
SHRAYERMAN, M.R., kand. tekhn. nauk, retsenzent; RUSSO,
V.L., nauchn. red.; SHISHKOVA, L.M., tekhn. red.

[Welding of hull structures in a carbon dioxide atmosphere]
Svarka korpusnykh konstruktsii v srede uglekislogo gaza.
Leningrad, Sudpromgiz, 1963. 147 p. (MIRA 16:9)
(Ships--Welding) (Protective atmospheres)

SIDEL'KOVSKIY, L.N., kand.tekhn.nauk, dotsent; RUSSO, V.L., inzh.

Use of a fluidized bed for cooling the walls of a cyclone
chamber with slag hardened lining. Izv. vys. ucheb. zav.;
energ. 5 no.2:73-73 F '62. (MIRA 15:3)

1. Moskovskiy ordena Lenina energeticheskiy institut.
Predstavlena kafedroy ognevoy promteplotekhniki.
(Fluidization) (Furnaces)

PHASE I BOOK EXPLOITATION

SOV/6125

Russo, Vladimir Leonidovich

Svarka aliuminiyevykh sylavov v srede inertnykh gazov (Welding of Aluminum Alloys in an Inert-Gas Atmosphere). Leningrad, Sudpromgiz, 1962. 160 p. 3,300 copies printed.

Reviewers: P. D. Korobov, Engineer, and F. I. Razduy, Candidate of Technical Sciences; Scientific Ed.: P. A. Alsuf'yev; Ed.: V. M. Shakunova; Tech. Ed.: Yu. N. Korovenko.

PURPOSE: This book is intended for engineering and scientific personnel in shipbuilding and associated branches of industry.

COVERAGE: The book describes manual and mechanized inert-gas shielded arc welding of aluminum alloys and discusses basic properties of aluminum alloys (including welding properties), specific features of the electric arc in inert-gas atmosphere, technology of welding aluminum alloys, methods of improving the quality of weld metal, and the modern equipment used for welding aluminum alloys. Certain problems of fabricating aluminum-alloy ship structures are also discussed, along with quality control of these structures. No personalities are mentioned. There are 24 references: 23 Soviet and 1 German.

Card 1/ /

RUSSO, Vladimir Leonidovich; KOROBOV, P.D., inzh., retsenzent;
RAZDUY, F.I., kand. tekhn. nauk, retsenzent; ALSUF'YEV,
P.A., nauchnyy red.; SHAKHNOVA, V.M., red.; KOROVENKO,
Yu.N., tekhn. red.

[Welding aluminum alloys in an inert gas atmosphere] Svar-
ka aliuminievykh splavov v sred^e inertnykh gazov. Lenin-
grad, Sudpromgiz, 1962. 160 p. (MIRA 15:8)

(Aluminum alloys—Welding)
(Protective atmospheres)

RUSSO, V.L., inzh.

Study of blast furnace linings. Izv. vys. ucheb. zav.;
energ. 5 no.1:93-98 Ja '62. (MIRA 15:2)

1. Moskovskiy ordena Lenina energeticheskiy institut. Predstavlena
kafedroy ognevoy promteplotekhniki.
(Blast furnaces)

RUSSO, V.L., inzh.

Effect of ultrasonic waves on the crystallization of the weld bath
and weld metal properties. Svarka 2:3-8 '59. (MTRA 14:5)
(Welding) (Ultrasonic waves—Industrial applications)

DZHIVAGA, Ivan Ivanovich; KERNER, M.S., retsenzent; ABRAMOVICH, V.R.,
retsenzent; RUSSO, V.L., retsenzent; ISKOZ, B.B., nauchnyy red.;
LISOK, E.I., red.; KRYAKOVA, D.M., tekhn. red.

[Electric arc welding of nonferrous metals and alloys] Elektrodu-
govaia svarka tsvetnykh metallov i splavov. Leningrad, Gos.
sciuznoe izd-vo sudostroitel'noi promyshl., 1961. 138 p.
(MIRA 14:9)

(Nonferrous metals—Welding)

S/137/61/000/002/017/046
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 2, p. 13 # 2E106

AUTHORS: Russo, V. L., Prosyankin, I. P.

TITLE: Welding of Aluminum-Magnesium Alloy Structures in Inert Gas Medium

PERIODICAL: "Tr. Nauchno-tekhn. o-va sudostroit. prom-sti", 1959, No. 33,
pp. 21-28

TEXT: The authors analyze technological problems of manual, automatic
and demi-automatic welding with consumable electrode in He and argon atmosphere.
The dependence is shown of the mechanical properties of butt welds of AMG6T
(AMG6T) type alloys on the quality of preparing the edges. Conditions are des-
cribed for the semi-automatic welding with 2 mm diameter consumable electrode of
butt and Tee joints on AMG6T alloy.

✓
Yu. S.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

RUSSO, V. L.; PROSYANKIN, I.P.

Welding aluminum-magnesium alloy structures in an inert gas atmosphere. Trudy NTO sud. prom. no. 33:21-28 '59.
(MIEA 13:9)

(Aluminum-magnesium alloys--Welding)
(Protective atmospheres)

RUSSO, V.L., inzh.

Studying the effect of elastic vibrations in various frequencies
on the crystallization of weld baths. Svarka 1:3-15 '58.
(MIRA 12:8)

(Welding)
(Crystallization)
(Sound waves--Industrial applications)

BAYKOV, Dmitriy Ivanovich; ZOLOTOREVSKIY, Yuliy Semenovich; RUSSO,
Vladimir Leonidovich; RYAZHSKAYA, Tamara Konstantinovna;
BABICHEV, B.I., kand.tekhn.nauk, nauchnyy red.; KAZAROV,
Yu.S., red.; LEVOCHKINA, L.I., tekhn.red.

[Weldable aluminum alloys; properties and use] Svarivaiu-
shchiesia aluminievye splavy; svoistva i primenie. Lenin-
grad, Gos.sciuznnoe izd-vo sudostroit.promyshl., 1959. 234 p.
(MIRA 12:10)

(Aluminum alloys)

100, V. L.

N/5
662.337
.05

Elektrosvarkchik (The Electric Welder, by) Z. F. Dreyzanshtok, A. I.
Part I V. I. Sudor. Moscow, Meshgiz, 1946.
102 p. Illus., Diagrams, Tables.
"Literatura": p. 101.

NIA

AUTHORS:

Russko, V.L., Engineer and Yefimov, P.N.

SOV-135-58-11-4/21

TITLE:

The Effect of Low-Frequency Vibrations on Weld Metal Crystallization and on Properties of Welds (Vliyaniye vibratsii nizkikh chastot na kristallizatsiyu metalla svarochnoy vanny i svoystva metalla shva)

PERIODICAL:

Svarochnoye proizvodstvo, 1958, Nr 11, pp 10-12 (USSR)

ABSTRACT:

No exact data exists on the effect of vibration on the crystallization of weld metal. It is assumed that changes in crystallization are caused by the breaking-up of growing crystals. Investigations were carried out to determine the dependence of dendrite-destroying forces on the vibration technology. A formula is given to calculate the specific pressure pulses formed in the crystallizing metal, which are a major factor of the vibration effect on weld metal. At a certain value (of these pulses) the ends of growing dendrites are destroyed, the splinters of them form additional crystallization centers and a fine and disoriented structure of initial crystallization. It was stated that the higher frequency entails regression of initial grain size and increased toughness.

Card 1/2

URASIN, L.A.; KALIKHEVICH, F.F.; IVAKINA, T.Ya.; KLIMISHIN, I.A.;
BRATIYCHUK, M.V.; RUSSO, Yu.D.; CHUPRINA, R.I., nauchnyy
sotrudnik

Results of photographic observations of artificial earth
satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.6:18-23
'59. (MIRA 13:6)

1. Sotrudnik Astronomicheskoy observatorii im. Engel'gardta, Kazan' (for Urasin).
2. Sotrudniki stantsii fotonablyudeniya iskusstvennykh sputnikov Zemli v Nikolayevskom otdelenii Glavnaya astronomicheskoy observatorii AN SSSR (for Kalikhevich, Ivakina).
3. Nachal'nik nablyudatel'noy stantsii Astronomicheskoy obser-vatorii Lvovskogo gosuniversiteta im.Iv.Franko (for Klimishin).
4. Nachal'nik fotograficheskoy stantsii O73 Odesskoy astrono-micheskoy observatorii (for Russo).
5. Astronomicheskiy Sovet AN SSSR (for Chuprina).

(Artificial satellites—Tracking)

KISELEVA, T.P.; FEDCHUN, M.S.; LATYPOV, A.A.; BABADZHANOV, P.B.; RUSSO,
Yu.D.; CHUPRINA, R.I., nauchnyy sotrudnik

Results of photographic observations of artificial earth
satellites. Biul.sta.opt.nabl.isk.sput.Zem. no.9:16-24
'59. (MIRA 13:3)

1. Glavnaya(Pulkovskaya)Astronomicheskaya observatoriya AN
(SSSR (for Kiseleva). 2. Glavnaya Astronomicheskaya observatoriya
AN USSR, Kiyev, nachal'nik stantsii nablyudeniy (for Fedchun).
3. Tashkentskaya astronomicheskaya observatoriya AN UzSSR,
nachal'nik fotograficheskoy stantsii (for Latypov). 4. Institut
astrofiziki AN Tadzhikskoy SSR, Stalinabad, nachal'nik stantsii
fotonablyudeniy iskusstvennogo sputnika Zemli (for Babadzhany).
5. Odesskaya astronomicheskaya observatoriya, nachal'nik
stantsii nablyudeniy iskusstvennogo sputnika Zemli (for Russo).
6. Astrosoviet AN SSSR (for Chuprina).

(Artificial satellites--Tracking)

S/035/61/00C/012/031/C⁴³
A001/A101

AUTHOR: Russo, Yu.D.

TITLE: An extraordinary swarm of celestial bodies

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodeziya, no. 12, 1961, 76,
abstract 12A627 ("Astron. tsirkulyar", 1960, dekabrya 8, no. 216,
31 - 32)

TEXT: Information is given on observations of unknown meteor-like bodies
of red color, conducted at the Odessa Station for photoobservations of Earth's
artificial satellites on 9 and 10 November, 1960. The flight direction was al-
most parallel to the southern horizon. The angular velocity of motion of the ob-
jects $\omega = 30^\circ - 35^\circ \text{ sec}^{-1}$, altitude was $\sim 40 \text{ km}$, flight velocity was 8 km/sec .
The phenomenon resembles somewhat the meteoric swarm Takinni on June 27, 1874, on
the one hand, and on the other hand the motion of the cabin of the first Soviet
space ship (October 28, 1960). ✓

M. F.

[Abstracter's note: Complete translation]

Card 1/1

Russo, Yu D.

PHASE I BOOK EXPLOITATION: Sov/5575

Akademiya nauk SSSR. Astronomicheskiy sovet.

Byulleten' stantsii opticheskogo nablyudeniya ikhuiatvennykh sputnikov Zemli, no. 6. (Bulletin of the Stations for Optical Observation of Artificial Earth Satellites. No. 6) Moscow, 1959. 23 p. 500 copies printed.

Sponsoring Agency: Astronomicheskiy sovet Akademii nauk SSSR.

Resp. Ed.: Ye. Z. Gindin; Secretary: O. A. Severnaya.

PURPOSE : This bulletin is intended for scientists and engineers concerned with optical tracking of artificial satellites.

COVERAGE : The bulletin contains 9 articles which present the results of satellite observations, and describe methods and specific equipment used for photographic observation of earth satellites. An appendix contains a listing of 84 Soviet satellite observation stations with station number. No personalities

Card 1/6

Bulletin of the Stations (Cont.)

SCV/5575

are mentioned. There are no references.

TABLE OF CONTENTS:

Panova, G. V., T. Ye. Syshchenko, E. A. Firago, and P. Ye. Shchegolev [Glavnaya (Pulkovskaya) Astronomicheskaya obser-
vatoriya AN SSSR - Main (Pulkovo) Astronomic Observatory of the
Academy of Sciences of the USSR]. Observations of the Second
Artificial Earth Satellite (1957 B) at Station No. 039 (Pulkovo)
(Observations: B. A. Firago, D. D. Polozhentsev, G. V. Panova,
N. M. Bronnikova. Measurements and Calculations: T. Ye. Syshchenko,
G. V. Panova, D. Ye. Shchegolev, B. A. Firago, and T. F. Kise-
leva)

Longauer, G. G. [Main (Pulkovo) Astronomic Observatory of the
Academy of Sciences of the USSR]. On Methods for Precise Photo-
graphic Determinations of the Positions of Artificial Earth Satel-
lites

Card 2/6

Bulletin of the Stations (Cont.)

SOV/5575

- of the USSR]
c. Kalikhevich, F. F. Corrections of the Universal Time of
Photographic Satellite Observations in the Above Depart-
ment, Published in the Bulletin of Optical Satellite 19
Tracking Stations No. 2 20
d. Klimishin, I. A. [Head of the Tracking Station of the
Astronomical Observatory of the L'vov State University
imeni I. Franko] [Astronomicheskaya observatoriya
L'vovskogo gosuniversiteta im. I. Franko. Astronomic
Observatory of L'vov University im. I. Franko] (Methods used:
Deych and Kayzer. Observers: I. F. Vavrinuk, I. V.
Shpichka, L. F. Lutsiv-Shumskiy. Measurements: A. A.
Kopystynskiy, and L. F. Lutsiv-Shumskiy) 21
e. Bratiychuk, N. V. [Head of the Tracking Station, Uzhgorod
State University] [Uzhgorodskiy gosuniversitet - Uzh-
gorod University.] (Calculator: Shvalagin) 22
f. Russo, Yu. D., and P. I. Chuprina. Odessa Astronomical
Observatory. (Methods used: Deych and Tsesevich. Ob-
server: V. V. Grek) 23

Card 5/6

RUSSO, Yu.D. (Odessa)

Unusual swarm of heavenly bodies. Astron.tsir. no.216:31-32
D '60. (MIRA 14:4)
(Meteors)

SEMENENKO, D.K.; RUSSO, Yu.V.; OVCHINNIKOV, V.M.

Permeability to gas of burnt-out areas filled with slaggy rock.
Podzem.gaz.ugl. no.4:19-21 '59. (MIRA 13:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.
(Coal gasification, Undergrcund)

RUSSO, Yu.V.

Effect of slag formation on aerodynamic and thermal conditions
in underground gas producers. Podzem. gaz. ugl. no.1:35-38 '59.
(MIRA 12:6)

1. VNIIIPodzemgaz.

(Coal gasification, Underground)
(Subsidence (Earth movements))

BRANZEU, Pius [Branzew, P.]; RUSSO, Zhan [Russo, J.] (Rumyniya)

Surgical treatment of patients with thrombosis of the superficial veins of the lower extremities. Khirurgia 36 no.9:40-43 S '60.
(LEG-BLOOD SUPPLY) (THROMBOSIS) (MIRA 13:11)

KOSSAKOWSKI, Mieczyslaw, inz., RUSOCKI, Andrzej, mgr inz.; ZELAZNY, Jerzy, inz.

Mining Machine Works in Piotrkow Trybunalski. Przegl mech 22
no.7/8:238-240 10-25 Ap '63.

1. Mining Machinery Works, Piotrkow Trybunalski.

RUSOCKI, J.

"How to Obtain Large Crops of Sugar-Beet Seeds," p. 13
(Plon, Vol. 5, No. 2, Feb. 1954, Warszawa)

East European Vol. 3, No. 6 1954
SO: Monthly List of ~~RECEIVED~~ Accessions, Library of Congress, June 1955, Uncl.

P/012/59/004/03/10/020

AUTHORS: Russocki, M.; Chrząszczewska, A.; Slawiński, T.; Hahn, W E.

TITLE: Synthesis of 1, 6, 8, 2¹, 4¹, 6¹-Hexahydroxyphenylfluorone 1

PERIODICAL: Societas Scientiarum Lodziensis Acta Chimica, 1959, Vol 4,
pp 90 - 93

TEXT: The scope of the investigation described in this article was the synthesis of a hitherto not known symmetrical hexahydroxyphenylfluorone in which all ortho positions, as regards the central carbon, are filled with hydroxy groups. This goal was achieved by condensation of phloroglucine aldehyde with phloroglucine in a classical way. The condensation was carried out by heating these compounds in 50%-alcohol, acidulated with H₂SO₄ in the atmosphere of air or carbon dioxide. The output was between 48-56%. The same product, but with lower output and purity, was obtained by condensation in concentrated sulphuric acid. There are 4 references: 2 German and 2 English.

ASSOCIATION: Katedra Chemii Organicznej Uniwersytetu Łódzkiego (Łódz University, Department of Organic Chemistry)

PRESENTED: March 14, 1959

Card 1/1



RUSSO, Yu.V.; KAZAK, V.N.

Changes in the physicomechanical properties of rocks in coal seam
roofs during the gasification process. Podzem. gaz. ugl. no.4:36-40
'58. (MIRA 11:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut Podzemgaz.
(Coal gasification, Underground) (Rocks)

RUSSOCKI, J.

RUSSOCKI, J. Produkcja nasion buraka cukrowego. 2. wyd., uzup. Warszawa,
Panstwowe Wydawn. Rolnicze i Lesne, 1955. 101 p. (Production of sugar-
beet seed. 2d ed., enl.) DA Not in DLC

AGRICULTURE
Poland

So: East European Accession, Vol. 6, No. 5, May 1957

RUSSOCKI, J.

"What To Do When Beet Sets are Frozen." p. 19 (Plon, Vol. 5, No. 4, Apr. 1954)

SO:Monthly List of East European Accessions, Vol. 3, No. 6, Library of Congress, June,
1954, Uncl.

POLAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

H

Abs Jour : Ref Zhur-Khimija, No 6, 1959, 20402

Author : Russocki, Marian

Inst :
Title : Sulfuring of Organic Compounds in
Rotating Furnaces.

Orig Pub : Przem. chem., 1958, 37, No 1, 46-47

Abstract : A brief review is given of the development
of the technology of organic compounds. At
the Institute of Dyes and Semiproducts at
Zgierz (Poland), experiments on sulfuring
were conducted under pilot plant conditions
in an apparatus which consists of a steel

Caed : 1/4

H-70

POLAND/Chemical Technology. Chemical Products
and Their Applications. Industrial
Organic Synthesis.

Abs Jour : Ref Zhur-Khimiya, No 6, 1959, 20402

a uniform powder. After laboratory study of the reaction, 6 pilot plant fusions were set up for 10-kg mixtures of the indicated composition. Fusion of the charged material occurred at 150°. At 250° separation of H₂S and CO₂ began. At 260° gas was separated rapidly, but then the jet began to weaken and the temperature was increased to 280° and higher. With a temperature of over 300°, a small quantity of gas was separated, which was saturated with vapors of I. A total of about 1 m³ of gas was isolated at an average temperature of 250°. After the separation

Card : 3/4

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CO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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		III-A22.JW.22110		PROPERTIES AND PROPERTIES INDEX		A-3	
<p>Diphenylamine Derivatives. I. K. DAWSON and M. H. Roseotti (Bull. Acad. Polonaise, 1959, 8, 500-517).—The conclusions of Moore and Welch (Am. J. Chem., 1973, 44) concerning the proportion of mono- and di-sulphonic acids formed by the action of concentrated sulphuric acid on diphenylamine are confirmed. With chlorosulphonic acid in nitrobenzene solution below 90°, however, the initial product is the unstable, crystalline, diphenylaminium-chlorosulphonate which at higher temperatures readily decomposes, giving nuclear substitution products in accordance with the scheme: $\text{Ph}_2\text{NH} \cdot \text{SO}_3\text{Cl} \rightarrow \text{NPh}_2 \cdot \text{SO}_3\text{H} \rightarrow \text{NHPh}_2 \cdot \text{O}_2\text{S} \cdot \text{SO}_3\text{H}$, the proportion of mono- and di-sulphonic acids produced depending on the molecular proportion of chlorosulphonic acid used. Thus with 0.5, 1.0, 1.5, and 2.0 mol. of chlorosulphonic acid for each mol. of diphenylamine the proportions of mono- and di-sulphonic acids and of unchanged diphenylamine are, respectively, 25, 5, 70; 38, 23, 40; 34, 50, 16; and 0, 99-100, 0 mol. %. Hence with 0.5 mol. of the reagent diphenylamine-4-sulphonic acid (magnesium salt, m. p. 206.5°) is readily separated from the reaction mixture as its magnesium salt. Nitration of sodium diphenylamine-4-sulphonate with 1 mol. of nitric acid (d 1.48) in acetic acid gives the 4-nitro-derivative (magnesium salt) converted by hydrolysis with concentrated hydrochloric acid in a sealed tube at 190° into 4-nitrodiphenylamine (Goldberg, A., 1907, 1, 1077), and further nitrated to sodium 2 : 4-dinitrodiphenylamine-4-sulphonate. Excess of nitro acid converts sodium diphenylamine-4-sulphonate into the 2 : 4 : 6-trinitro-derivative identical with a specimen obtained by the condensation of 2 : 4 : 6-trinitrochlorobenzene and sulphanilic acid (Turpin, J.C.S., 1891, 59, 717) and hydrolysed by concentrated hydrochloric acid at 180-200° to 2 : 4 : 6-trinitrodiphenylamine. The action of bromine (3 mol.) on a suspension of sodium diphenylamine-4-sulphonate in carbon tetrachloride at 45-50° converts it into its 4-bromo-derivative, whilst with 6 mol. of bromine at 60-70° the product is sodium 2 : 4 : 2'-tribromodiphenylamine-4-sulphonate (magnesium salt), converted by excess of hydrobromic acid at 100° into 2 : 4 : 2' : 4'-tetrabromodiphenylamine and by dilute hydrochloric acid at 190° into 2 : 4 : 2'-tribromodiphenylamine, m. p. 94°, whilst the action of nitric acid (d 1.48) in acetic acid at 165-190° yields</p>							
AS-N-SLA METALLURICAL LITERATURE CLASSIFICATION		ESOMI SUBJECT		MILLION		ESOMI SUBJECT	
SANDUS 44		ESOMI MAP ONLY GRC		MILLION		ESOMI MAP ONLY GRC	
S	M	A	Y	H	O	S	N
P	W	D	D	I	P	M	E

RUSSOCKI, Marian, doc. dr.

Reactive dyes subject to scientific debates in the Council of Mutual Economic Assistance. Chemik 16 no.9:258-259 S '63.

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0

RUSSONIK, S.I.; BATUNIN, M.P.; MATUSIS, I.I.; GLAVINSKAI, T.A.; PESINA, Z.A.;
BOLSHAKOVA, V.F.; FEDOROVSKAYA, R.F.; RAPOPORT, B.N.;

"Results of the use of monoethyl ester of ethylene glycol (cellosolve)
in the treatment of 266 cases of various types of dermatosis."

Nauch. Zap. Gorki, Inst. Derm. 1955, 16, 11 -- 24; Referat. Zh. Biol. Khim, 1956,
Abstr. No. 88417.

For Abstract see MATUSIS, I.I.

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001446130002-0"

RUSSONIK, S. I.
BATUMIN, M.P.; MATUSIS, I.I.; GLAVINSKAYA, T.A.; PESINA, Z.A.; BOL'SHAKOVA, V.F.
YEDOROVSKAYA, R.F.; RAPOPORT, B.N.; RUSSONIK, S.I.

Use of ethyleneglycol monoethyl ether in dermatology. Vest. ven.
1 derm. no.3:11-15 My-Je '54. (MIR 7:8)

1. Iz Gor'kovskogo kozhno-venerologicheskogo instituta (dir. prof.
M.P.Batumin)
(SKIN, diseases,
*ether., 2-ethoxyethanol)
(ALCOHOL, ETHYL, derivatives,
*2-ethoxyethanol, ther. of skin dis.)

ACC NR: AP7001315

SOURCE CODE: UR/0057/66/036/012/2188/2190

AUTHOR: Perchanok, T. M.; Russov, V. M.; Fridrikhov, S. A.

ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Some operational characteristics of the pulse emission of an He-Ne laser

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 12, 1966, 2188-2190

TOPIC TAGS: ~~laser~~, laser pulse, ~~pulse-laser~~, ~~laser-pulse emission~~, ~~He-Ne laser~~, ~~He-Ne~~ ~~laser emission~~, gas laser, discharge tube, phototube

ABSTRACT: The dependence of the output power of an He-Ne laser on its various parameters was experimentally investigated under conditions of short (0.5- μ sec) pulses in rapid (2000 pulses/sec) succession. A gas discharge tube with quartz windows installed at the Brewster angle in a semi-confocal resonator was used. An FEU-22 multiplication phototube served as the receiver. The output pulse shape of the 6-mm and 15-mm discharge tubes was recorded by an IO-4 oscilloscope. The dependence of output light pulses with a duration of 30—100 μ sec on the pumping power and pressure of the mixture was investigated. The optimal Ne and He ratios in the tube were 1 to 15 and 1 to 30 for 6- and 15-mm tubes, respectively. More powerful emission occurred from 15-mm tubes (about 1 wt), with pulse power about three orders higher than that under continuous emission. The average and peak output power of this tube, plotted against pumping voltage (varied from about 10 to 30 kv at pressures up to

Card 1/2

ACC NR: AP7001315

4 mm Hg, and 10 to 22 kv for pressures from 6 to 12 mm Hg) shows, under pressures up to 4 mm Hg, monotonically rising curves to about 30 kv. In the higher pressure range, a narrowing of the emission zone occurs and the curves take the shape of sharp peaks which shift with pressure toward higher or lower values and tend generally toward higher output values at higher pressures. For a full explanation of these relationships further investigations are felt necessary. The observations of the cross-sectional intensity distribution within the output beam revealed an multimode structure. Under certain conditions (pressure 4 mm Hg, pumping voltage 14 kv) the beam cross section in the near zone took the form of a ring 12 mm in outside diameter and 5 mm in inside diameter. At higher pressures and higher pumping voltages, a delay and widening of the emission pulse as observed and explained earlier by Yegorov and others (Optika i spektroskopiya, 18, 1965, 719; ibid, 15, 1963, 839) took place. Attempts to obtain emission from the same tubes on the 6328 Å wavelength were unsuccessful at pressures of 1 to 8 mm Hg and pumping voltages of 6 to 30 kv. The authors thank A. R. Shul'man for his interest in the work and D. K. Terekhin and A. E. Fotiadis for useful discussions. Orig. art. has: 2 figures. [WA-14]

SUB CODE: 20/ SUBM DATE: 13Oct65/ ORIG REF: 004/ OTH REF: 005/

Corr. 2/2

ACC NR: AP7001315

SOURCE CODE: UR/0057/66/036/012/2188/2190

AUTHOR: Perchanok, T. M.; Russov, V. M.; Fridrikhov, S. A.

ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politekhnicheskiy institut)

TITLE: Some operational characteristics of the pulse emission of an He-Ne laser

SOURCE: Zhurnal tekhnicheskoy fiziki, v. 36, no. 12, 1966, 2188-2190

TOPIC TAGS: ~~laser~~, laser pulse, ~~pulse~~, ~~laser~~ pulse emission, ~~He-Ne~~ laser, ~~He-Ne~~ ~~laser~~ emission, gas laser, discharge tube, phototube

ABSTRACT: The dependence of the output power of an He-Ne laser on its various parameters was experimentally investigated under conditions of short (0.5-usec) pulses in rapid (2000 pulses/sec) succession. A gas discharge tube with quartz windows installed at the Brewster angle in a semi-confocal resonator was used. An FEU-22 multiplication phototube served as the receiver. The output pulse shape of the 6-mm and 15-mm discharge tubes was recorded by an IO-4 oscilloscope. The dependence of output light pulses with a duration of 30—100 usec on the pumping power and pressure of the mixture was investigated. The optimal Ne and He ratios in the tube were 1 to 15 and 1 to 30 for 6- and 15-mm tubes, respectively. More powerful emission occurred from 15-mm tubes (about 1 wt), with pulse power about three orders higher than that under continuous emission. The average and peak output power of this tube, plotted against pumping voltage (varied from about 10 to 30 kv at pressures up to

Card 1/2

ACC NR: AP7001315

4 mm Hg, and 10 to 22 kv for pressures from 6 to 12 mm Hg) shows, under pressures up to 4 mm Hg, monotonically rising curves to about 30 kv. In the higher pressure range, a narrowing of the emission zone occurs and the curves take the shape of sharp peaks which shift with pressure toward higher or lower values and tend generally toward higher output values at higher pressures. For a full explanation of these relationships further investigations are felt necessary. The observations of the cross-sectional intensity distribution within the output beam revealed an multimode structure. Under certain conditions (pressure 4 mm Hg, pumping voltage 14 kv) the beam cross section in the near zone took the form of a ring 12 mm in outside diameter and 5 mm in inside diameter. At higher pressures and higher pumping voltages, a delay and widening of the emission pulse as observed and explained earlier by Yegorov and others (Optika i spektroskopiya, 18, 1965, 719; ibid, 15, 1963, 839) took place. Attempts to obtain emission from the same tubes on the 6328 Å wavelength were unsuccessful at pressures of 1 to 8 mm Hg and pumping voltages of 6 to 30 kv. The authors thank A. R. Shul'man for his interest in the work and D. K. Terekhin and A. E. Fotiadis for useful discussions. Orig. art. has: 2 figures. [WA-14]

SUB CODE: 20/ SUBM DATE: 13Oct65/ ORIG REF: 004/ OTH REF: 005/

Card 2/2

ANASHKIN, I.V.; RUSSOV, V.V.

Model of a flax flower. Biol.v shkole no.4:95-96 Jl-Ag '62.
(MIRA 15:12)

1. Chuvashskiy pedagogicheskiy institut.
(Botany--Audio-visual aids)

RUSSU, A.

Traversing by means of interjacent stations in the vertical plans of fixed points. p. 171.
(Revista Padurilor, Vol. 71, No. 3, Mar. 1957, Bucuresti, Romania)

SO: Monthly List of East European Accessions (EMAL) Lc. Vol.6, No. 8, Aug 1957. Uncl.

RUSSU, A.

"Establishing the Ponderable Means in Topographical Measurements." p. 29
(Revista Padurilor, Vol. 68, No. 9, Sept. 1953, Bucuresti)

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress,
March 1954, Uncl.

RUSSU, AUREL.

Topografie. Cucuresti, Editura Tehnica, 1955. 623 p. (Topography. Illus.,
bibl., index, tables)

So. East European Accessions List Vol. 5, No. 9 September, 1956

RUSCHI, Aurel, prof.; BOG, Nicolina; KISS, Arpad, assist.; MADARAS, Ioan,
assist; VATASAN, Nina, assist.

Regarding the size of the atmospheric refraction coefficient
K and the precision of the trigonometric leveling at great
distances. Rev. geodezie 8 no.4:28-41 '64.

Russo, C.

G-17

COUNTRY : Romania

CATEGORY :

ABB. JOUR. : AZWhim., No. 21, 1959, No.

75821

AUTHOR : Russo, C., Calafeteanu, I., and Jacob, A.

J. N. : Not given

TITLE : Application of the Refractometric Method to the Quantitative Determination of Magistral Mixtures

ORIG. PUB. : Farmacia (RPR), 6, No 6, 505-510 (1958)

ABSTRACT : The authors have studied the possibility of applying the refractometric method of analysis to a series of magistral mixtures most frequently encountered in medical practice and have determined constants required for the analysis of the following substances: codeine phosphate, caffeine, sodium benzoate, and sparteine sulfate.
From authors' summary

CARD: 1/1

RUSSU, C.; PELLONI, V.; STERESCU, M.

Contributions to the study on the conservation of injectable
8% novocaine solutions. Rev chimie Min petr 14 no.1:48
Ja '63.

1. Institutul pentru controlu de stat al medicamentelor si
cercerari farmaceutice.

RUMANIA

RUSU, C., Pharmacist; CRUCEANU, I., Pharmacist.

Institute of State Control of Medicines (Institutul pentru
controlul de stat al medicamentului) - (for all)

Bucharest, Farmacia, No 4, Apr 63, pp 251-255.

"Contributions to the Study of the Identification of Certain
Corticosteroids, According to Wood. Note I."

(2)

RUMANIA/Chemical Technology. Pharmaceuticals Vitamins.
Antibiotics.

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Abs Jour: Ref Zhur-Khim., No 24, 1958, 82671.

Author : Murea L., Russu C.

Inst :

Title : The Photometric Determination of Small Amounts of
Papaverin in Pharmaceutical Mixtures.

Orig Pub: Farmacia (Romin), 1958, 6, No 2, 131-135.

Abstract: The method is based on the condensation of papaverin (I) with CH_2O with the formation of methylenedipapaverin. Good results were obtained in a quantitative determination of small amounts of I in seven typical mixtures and were not achieved by conventional methods.

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RUSSU, C.; CRUCEANU, I.; BARCARU, Valeria

Contributions to the determination of chloramphenicol in pharmaceutical preparations. Pt. 2. Rev chimie Min petr 15 no. 1: 45-46 Ja '64.

1. Institutul pentru controlul de stat al medicamentelor si cureaui farmaceutice.

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AUTHOR: Rusu, C.; Madgearu, M.

TITLE: Contributions to the determination of vitamins in syrups

SOURCE: Revista de chimie, v. 15, no. 9, 1964, 576-577

TOPIC TAGS: vitamin, pharmacology, quantitative analysis

Abstract: The authors elaborated a method for the determination of vitamins A, B₁ and C in a combination vitamin syrup, in order to check loss of effectiveness against time of storage. Their method is simple and the errors are within admissible limits, so that it can be used successfully for the determination of these vitamins when they are incorporated in a syrup. The preparation on which the work was performed is "Sanostol" produced by the Promonta enterprise, and contains 3,000 I. U. of vitamin A, 750 micrograms of vitamin B₁, 400 I.U. of vitamin D₃, 20 milligrams of vitamin C and 5 milliliters of syrup. Orig. art. has 3 tables.

ASSOCIATION: Institutul pentru controlul de stat al medicamentelor si cercetarii farmaceutice (Institute for the State Control of Drugs and Pharmaceutical Research)

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